NEWS AND NOTES

THE Illinois Section of the Mathematical Association of America is arranging for a meeting in connection with the meeting of the Illinois State Academy of Science at Rockford, Ill., on April 28th and 29th.

The program consists of the following:

Friday, 2 P. M.—

1. Constructive Methods in Geometry. Prof. Emch, University of Illinois.
2. Some Aspects of Correlation Theory. Mr. Mensenkamp, Freeport High School.
3. Romance in Science—An Experimental Course Offered by a Mathematics Department. Prof. Bessie Miller, Rockford College.
4. Consistency in Grading Mathematics Papers. Prof. E. J. Moulton, Northwestern University.

Friday Night—

5. An illustrated lecture on "Cosmogony," by Prof. MacMillan of the University of Chicago before a joint meeting of the Illinois Section and the State Academy of Science.

Saturday, 9 A. M.—

6. The National Committee Report on College Entrance Requirements in Mathematics (published in THE MATHEMATICS TEACHER for May, 1921). Discussion led by Prof. Wahlin, University of Illinois; Dr. Kinney, Crane Junior College, and Prof. Parsons, DeKalb State Teachers College.
7. How Many and What Mathematics Courses Should Be Offered to College Freshmen. Discussion led by Prof. Scott, Illinois College; Prof. Ginnings, Macomb State Teachers' College.

C. E. Comstock, E. J. Moulton, and E. B. Lytle, Program Committee.

THE former students of the Department of Mathematics of Bryn Mawr College announce a mathematical meeting to be held in Taylor Hall on Tuesday, April 18th, in honor of Prof. Charlotte Angas Scott, D.Sc., on the completion of her thirty-seventh year as head of the Department of Mathematics in Bryn Mawr

College. The program includes: Address of welcome, President M. Carey Thomas, Ph.D., LL.D., L.H.D.; introductory address, Miss Marion Reilly, A.B., 1901; speaker, Prof. Alfred North Whitehead, Sc.D., F.R.S., professor of applied mathematics in the Imperial College of Science, South Kensington, subject, "Relativity and Gravitation. Group Tensors and Their Application to the Formulation of Physical Laws."

The honorary committee consists of twenty distinguished mathematicians.

THE *High School Research Bulletin* (March, 1922) of the Los Angeles city schools contains a series of special articles on subjects of the high school curriculum by Dr. J. F. Bobbitt of the University of Chicago. They are written as a basis of further work by the Course of Study Committees. Prof. Bobbitt's "general assumptions and principles" for the Los Angeles curriculum in mathematics are:

1. The mathematics to be included in the general training should be determined by what men and women actually need in their general affairs outside of their several callings; and by the common mathematical element of all vocations.

2. The major thing needed is not ability to solve difficult mathematical problems; it is rather ability and disposition to think accurately and quantitatively in one's affairs. The latter frequently involves mathematical operations as incidental matters—never as the fundamental ones.

3. The way to learn to think quantitatively is mainly to think quantitatively in those various fields where quantitative thought is possible and desirable.

4. The ability to do quantitative thinking is to be developed in youth under conditions as nearly like those in which it is to function in adulthood, as practicable.

5. The ability to think quantitatively is a general need. It should therefore be a portion or aspect of the required training.

6. While the mathematical operations are not the main things, yet it is indispensable that one perform the needed ones with certainty and skill.

7. Outside of their vocations, the citizens of Los Angeles do not use algebra, demonstrational geometry, or trigonometry.

8. Outside of their vocations, the only mathematics content really needed by the men and women of the city is applied arithmetic.

9. Even in their vocations only a small percentage of the citizens of Los Angeles use algebra or trigonometry; and practically none use demonstrational geometry.

10. The mathematics needed for one's vocation should be determined strictly with a view to that vocation. It should then be administered only to those who enter that vocation; and it should be very thorough, especially along the applied lines involved in that vocation.

11. As fields of intellectual play, neither algebra nor demonstrational geometry lay foundations or centers of systems of ideas and thought generally needed throughout life.

12. As matters of pure general discipline, the city cannot afford to

administer algebra and geometry purely on faith: the specific disciplinary values should be made clear; and it should be demonstrated that they are or can be attained.

13. The value of applied mathematics, intensive and thorough, as a discipline for producing power to think, to assemble and organize facts, etc., has been amply and indisputably demonstrated.

14. The content of the economic and civic studies needs to be developed so as to include the necessary large amount of applied mathematics.

15. The mathematical element of the science studies, particularly general science and the biological sciences, needs much further development.

16. The needed mastery of the world of number is to be attained mainly through using number—not by studying abstractions about number.

17. The needed mastery of the world of form and space-relations is to be attained mainly by using forms and by constructing forms that are to be used. Studies about forms need be only brief and incidental.

MISS FANNIE S. MITCHELL was elected President of the Mathematics Section of the North Carolina State Teachers' Association which met at the Greenville Normal School, February 3rd and 4th. Mr. Raleigh Schorling of The Lincoln School of Teachers' College gave a series of talks on "The Mathematics of Grades Seven, Eight and Nine" to joint meetings of the Association and the Normal School.

PROF. DAVID EUGENE SMITH is traveling in Europe during his sabbatical leave from Teachers College. He will return for the winter session (October, 1922) at Teachers' College.

THE Detroit Mathematics Club offered the following program during 1921-22:

October 28th, Prof. Louis C. Karpinski, University of Michigan, "Mathematics and Life."

January 12th, Miss Orpha E. Worden, Detroit Teachers' College, "Teaching of High School Mathematics"; Miss Mabel C. Woodward, Detroit Teachers' College, "The Mathematics Situation in the Intermediate Schools."

March 16th, Address by Prof. A. E. Lyman, Ypsilanti State Normal College.

April 4th, Prof. Cassius J. Keyser, Columbia University, "The Mathematical Obligations of Philosophy and Education."

THE program of the Mathematics Section of the fifty-seventh meeting of the Michigan Schoolmasters' Club, March 30 and 31, 1922, consisted of the following:

Chairman, Jane L. Matteson, Michigan State Normal College.

Secretary, John Craig, Muskegon.

1. "How to Encourage the Formation of Right Habits in First Year Algebra," Miss Alice M. Woessner, Ann Arbor.

2. "The Value of the Long Recitation Period in High School Mathematics," Principal George W. Murdock, S. W. High School, Detroit.

3. "First Year Algebra for Pupils of Varying Capacities," Miss Selma Lindell, Flint.

4. "The Segregation of Classes According to Mental Tests," Mr. Isaac M. De Voe, Highland Park.

5. General Discussion. Opened by Professor R. A. Wells, Michigan State Normal College.

Friday afternoon, March 31:

6. Report of the Chicago meeting of National Council of Mathematics Teachers, Miss Orpha E. Worden, Teachers' College, Detroit.

7. "Specific Causes of Failure in University Work in Mathematics," Professor M. F. Johnson, University of Michigan.

8. Discussion of Professor Rouse's Paper of last year on "Causes of Failure of Students of the Engineering College," Miss Gladys Snyder, Muskegon.

9. "The Ohio Ruling," Mr. Harold Blair, Western Normal School.

10. General Discussion. Opened by Dean C. B. Williams, Kalamazoo College.

THE Educational Association of Western Pennsylvania met at Pittsburgh, March 27, 1922.

At the Mathematics Section, the following program was given:

"The Course in Mathematics as Recommended by the National Committee—Will This Fit the Student for His Future Work?" Prof. Paul Webber, Department of Mathematics, University of Pittsburgh.

Discussion.

"The Relation of College Preparatory to Vocational Mathematics," Prof. Glenn James, Department of Mathematics, Carnegie Institute of Technology.

Discussion.

Chairman, Miss Jane Matthews, Peabody High School.

Secretary, Mr. Redenbaugh, Peabody High School.

THE Philadelphia Teachers' Association conducted a series of departmental conferences Saturday, April 1, 1922. The program of the Mathematics Section was arranged by Philadelphia Section of the Association of Teachers of Mathematics of the Middle States and Maryland, and consisted of:

1. Election of officers.

2. Address, "Tests of Mathematical Abilities," Prof. E. L. Thorndike, Institute of Educational Research, Teachers' College, Columbia University.

Officers: President, Albert H. Wilson, Haverford College; Vice President, C. Burton Walsh, Friends' Central School; Secretary-Treasurer, Alice M. Holbrook, Philadelphia High School for Girls.

Executive Committee: K. Eleanor Cooper, Germantown High School; Samuel K. Brecht, Central High School.

Discussion.